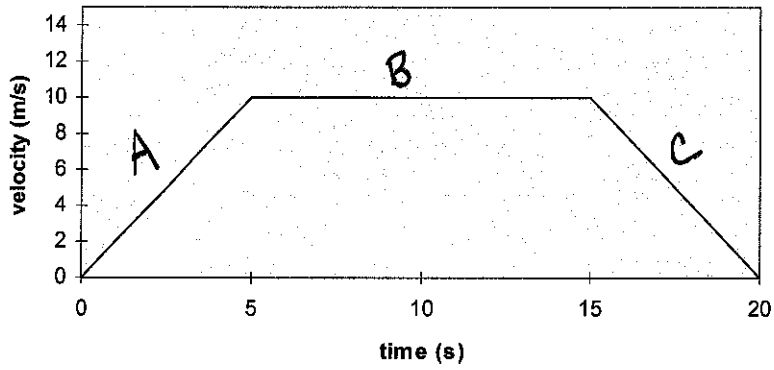
Name_____

Date_____ Block_____

Velocity-Time Graph Basics

The diagram shows a velocity-time graph describing the motion of a car.

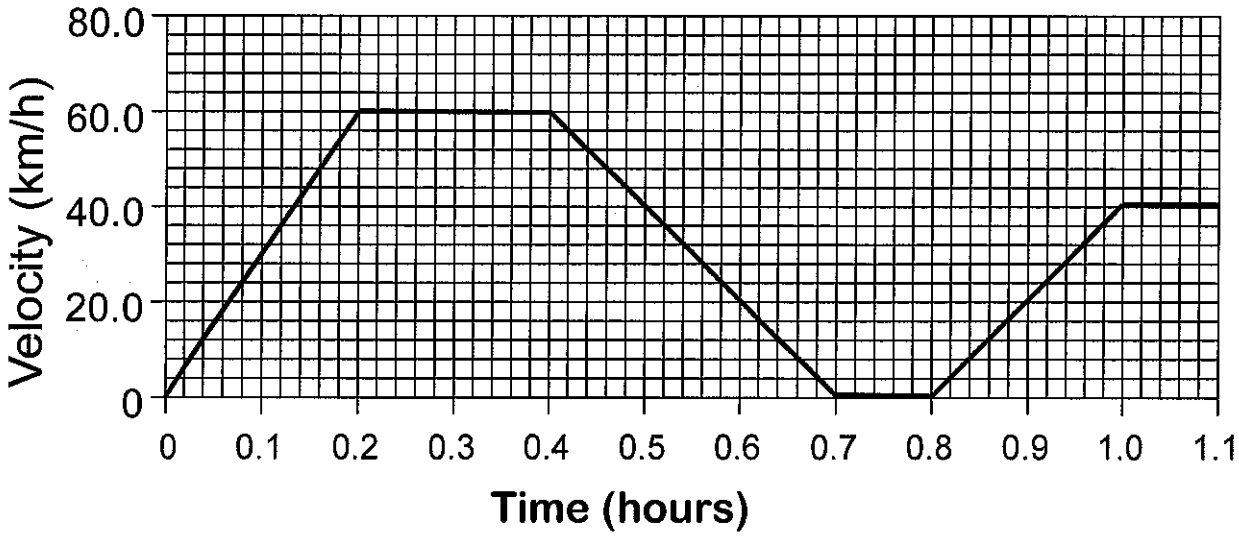


1. Describe the motion of the car during :

part A =

part B =

part C =



2. Above is a velocity-time graph of a moving car. Answer the following questions using the graph.

   a. At what time was the car stopped?

   b. At what time did the car have the greatest velocity?

   c. What was the greatest velocity?

   d. At what times was the car accelerating?

   e. How fast was the car going at 1.0h?

   f. Describe what happens to the speed of the car over the 1.1 hours. Tell the story.

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3. Draw a velocity time graph for the following situations:

A. I start running from a dead stop and it takes me 1 minute to speed up to 6 miles per hour. I stay at that speed for 10 minutes. I then take 1 minute to slow down to a stop.

B. A train is traveling at 89 miles per hour for one hour. It then lowers it's speed to 50 miles per hour to go through town. When it reaches the station 30 minutes later, it slows down to a stop.

C. I left my house on my bicycle traveling at 20 miles per hour. After 12 minutes, I stopped at the park to talk to my friend for 5 minutes. I then biked back home at 12 miles per hour, which took me 20 minutes.